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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/840,917	04/25/2001	Koji Yamamoto	Q64166	5248
7:	590 09/25/2003			
SUGHRUE, MION, ZINN, MACPEAK & SEAS 2100 Pennsylvania Avenue, N.W. Washington, DC 20037			EXAMINER	
			BOS, STEVEN J	
	•	•	ART UNIT .	PAPER NUMBER
			1754 DATE MAILED: 09/25/2003	1(

Please find below and/or attached an Office communication concerning this application or proceeding.

M

Application No.

09/840,917

Applicant(s)

Yamamoto et al

Office Action Summary Exa

Examiner Steven Bos Art Unit 1754

	The MAILING DATE of this communication appears	on the cover she	et with t	the correspondence address			
	for Reply						
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM						
	MAILING DATE OF THIS COMMUNICATION.  ions of time may be available under the provisions of 37 CFR 1.136 (a). In r	no event, however, m	ay a reply b	e timely filed after SIX (6) MONTHS from the			
	g date of this communication. period for reply specified above is less than thirty (30) days, a reply within th	e statutory minimum (	of thirty (30	) days will be considered timely.			
- If NO p	period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause th	nd will expire SIX (6) I	MONTHS fro	om the mailing date of this communication.			
- Any re	ply received by the Office later than three months after the mailing date of the						
earned Status	patent term adjustment. See 37 CFR 1.704(b).						
1) 💢	Responsive to communication(s) filed on Aug 6, 20	03	•				
2a) 💢	This action is <b>FINAL</b> . 2b) ☐ This action	ion is non-final.					
3) 🗆	Since this application is in condition for allowance e closed in accordance with the practice under Ex pair	•					
Disposi	tion of Claims						
4) 💢	Claim(s) <u>5-10</u>			is/are pending in the application.			
4	la) Of the above, claim(s)	<del></del>		is/are withdrawn from consideration.			
5) 🗆	Claim(s)			is/are allowed.			
6) 💢	Claim(s) <u>5-10</u>	•		is/are rejected.			
7) 🗆	Claim(s)			is/are objected to.			
8) 🗆	Claims	are	subject	to restriction and/or election requirement.			
Applica	tion Papers						
9) 🗆	The specification is objected to by the Examiner.						
10)	☐ The drawing(s) filed on is/are a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)	The proposed drawing correction filed on is: a) $\square$ approved b) $\square$ disapproved by the Examiner						
	If approved, corrected drawings are required in reply t	o this Office act	ion.	•			
12)	2) The oath or declaration is objected to by the Examiner.						
Priority	under 35 U.S.C. §§ 119 and 120						
13) 🗌	13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) 🗀	☐ All b)☐ Some* c)☐ None of:						
	1. $\square$ Certified copies of the priority documents have	e been received	d.				
	2.  Certified copies of the priority documents have	e been received	d in App	lication No			
	3. Copies of the certified copies of the priority do application from the International Burea	au (PCT Rule 11	7.2(a)).				
*S	ee the attached detailed Office action for a list of the	e certified copie	s not re	eceived.			
14) 🗆	Acknowledgement is made of a claim for domestic	priority under 3	35 U.S.(	C. § 119(e).			
a) [	The translation of the foreign language provisiona	l application ha	s been r	eceived.			
15)	Acknowledgement is made of a claim for domestic	priority under 3	35 U.S.C	C. §§ 120 and/or 121.			
Attachm							
_	otice of References Cited (PTO-892)			-413) Paper No(s)			
	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  5) Notice of Informal Patent Application (PTO-152)						
3) ∐inf	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	6) Other:					

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hill '964.

Hill suggests the instantly claimed process of pulverizing alumina having the instantly claimed purity and surface area in an vibratory ball mill or an attritor mill, ie. stirring mill, in an air atmosphere to form a powder of the alumina. See example II and cols. 3,4. Absent a showing of criticality, the amount of air and alumina to add would appear to be an optimization well within the level of skill of one of ordinary skill in the art. Because Hill teaches the use of the same type of mill instantly claimed it would appear to also have the same energy consumption as is instantly claimed. Alternatively, absent a showing of criticality, the amount of energy is a variable that is taught at col. 4, lines 27-35 to be an optimization within the level of skill of one or ordinary skill in the art.

Applicant's arguments filed August 6, 2003 have been fully considered but they are not persuasive.

Applicant states that Hill does not teach or suggest that milling is carried out during introducing continuously the inorganic oxide and the gas into the pulverizer.

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However continuous operation of a taught batch process is well within the level of skill of one of ordinary skill in the art, In re Dilnot 138 USPQ 248. Absent a showing of criticality, the amount of air and alumina to add would appear to be an optimization well within the level of skill of one of ordinary skill in the art.

Applicant performs a calculation of the volume of the mill used in Hill that uses a volume ratio of 25,000.

It is unclear where this came from since the instant claims appear to require a volume ratio of 25,000 divided by 100 which is the ratio of the volume of inorganic oxide to the volume of the gas.

Applicant states that the density of an alumina ceramic obtained in example 6 is 3.95 wherein the specific energy consumption is 0.64 kWh/kg whereas the density of an alumina ceramic obtained in comparative example 1 is 3.87 wherein the specific energy consumption is 1.08 kWh/kg.

However the instant claims are not commensurate in scope with instant example 6 therefore this argument is not persuasive...

Applicant states that the ratio of pulverizing time/feed rate of instant example 1 is different from that of example 1 of Hill.

However the instant claims are not commensurate in scope with instant example 1 therefore this argument is not persuasive.

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The instant claims do not exclude the cold bonding of Hill. The present invention is not different from Hill with regard to the effects of a step operated in a medium-stirring pulverizer because pulverization of the inorganic oxide occurs in each case.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven Bos whose telephone number is (703) 308-2537. The examiner is on the increased flexitime program schedule and can normally be reached between 8AM and 6PM Monday through Friday. The FAX No. for amendments is 703-872-9306. Any inquiry of a

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general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0661.

Steven Bos

Primary Examiner

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